

A GLENSIDE PUBLICATION SINCE  
1985

VOLUME XIII, NUMBER I

JANUARY  
1993 ISSUE

Glen  
side  
Color  
Computer  
Club

## From the President's Platen

by Tony Podraza

I don't mean to bore you with one particular fact, month after month, but it HAS been ten years since I acquired my first CoCo. Christmas of 1982 found me sitting cross-legged on the floor in front of my television trying to gain some sort of noise from my 16K non-Extended BASIC CoCo I.

The past two years had seen me in various Radio Shacks in the area, stealing some time on the keyboards of Model 1's and 2's, running "Dancing Demon", or some space war game. It was pretty neat, actually. Then one of the salesmen set a small amplifier down beside the keyboard and VOILA! I could hear some sounds that sounded like musical notes (sort of) being picked up by the amplifier!!!! WOOWSERS!

But now, I had my very own computer to learn on and didn't need the amplifier because it was already built in. Now what? Familiar scenario? In a lot of cases, probably so. ENTER.... the user's Group, where one learned and taught. ENTER.... newsletters, where one saw articles and short programs to type in. ENTER.... national publications, where one saw many, many articles and LARGER(read: longer)programs to type in. ENTER.... regional gatherings, where hundreds (and sometimes, hundreds of hundreds) of fellow "CoCo-ists" gathered for seminars, new product demonstrations, "bargain deals" in Radio Shack hardware and software, second party support in better hardware and software than Radio Shack had available at the time, and, of course, the renewing of friendships that had been forged over time because of Radio Shack and Motorola's little 6809 microprocessor.

Now, after ten years of involvement with this fun-loving powerhouse, seven of

which has seen me as an elected official of some sort in either of two user groups, and having been involved in the workings of 8 Rainbowfests (7 in Chicago and one in Princeton, thank you very much for the opportunity, Ed and Dave), 2 Atlanta CoCoFESTs, and one Chicago CoCoFEST, either as spectator, vendor personnel, Seminar speaker introducer (now I know how the 'opening act' groups for the superstars feel), Seminar speaker/round table moderator, host club president, or announcer, I am about to make the BIGGEST decision regarding this CoCo that I have ever made in my life.

Are you ready for this? In June 1993, Glenside Color Computer Club will sponsor the Second Annual Last Chicago CoCoFEST! The dates are not yet cast in concrete, but are tentatively the 5th and 6th. Final arrangements are being made this week, and I hope to get the February newsletter out early so you can properly plan ahead. We sincerely hope that you all will be able to support the Fest by your attendance.

Verbal intentions of participation from vendors include, but are not limited to: BARSoft, Frank Hogg Laboratories, Kala Software, Farna Systems, Hawksoft, ColorSystems and Sub-Etha. Consideration of attending is being given by STG, Sirius Software, and T & D Software. More contacts are being made on a weekly basis, and I expect to be able to give you a more complete list of vendors next month. This is real exciting for me, as I hope it is for you. This may, indeed, be the LAST Chicago CoCoFEST, due primarily to the rising costs and the declining number of vendors who are willing to put forth time and effort to

CONTINUED ON PAGE 3

## INSIDE THIS ISSUE

|                             |    |
|-----------------------------|----|
| From the President's Platen | 1  |
| CoCo~123 Information        | 2  |
| CoCo~123 Contributions      | 2  |
| Future Meeting Dates        | 2  |
| Contributors To This Issue  | 2  |
| December Meeting Review     | 3  |
| History Of The CoCo         | 3  |
| Disk Utilities              | 7  |
| Forsale / Wanted            | 9  |
| Directions                  | 11 |

### CoCo-1,3 Information

The Glenaside Color Computer Club of Illinois is a not-for-profit organization whose members share an interest in the Tandy Color Computer®. The CoCo-1,3 is the official newsletter of the Glenaside Color Computer Club. The Glenaside Color Computer Club of Illinois has no affiliation with Radio Shack® and/or the Tandy Corporation®. The opinions expressed by the authors of articles contained within this newsletter do not necessarily reflect the opinions of the Editor, the Executive Officers or the actual Club membership.

We are committed to publishing a minimum of four issues and a maximum of twelve issues per calendar year. For an annual fee of \$12.00 you can become a GCCC member with full membership privileges. Persons wishing to receive the CoCo-1,3 newsletter without full membership privileges may receive this newsletter for an annual fee of \$14.00. Send your dues to:

**GEORGE SCHNEEWEISS**  
RR #2 Box 67  
Forrest, IL 61741-9629

Here is the list of 1992 Executive Officers and how to contact them. The club has four strong SIGS, Tandy Color Computer 1, 2, 3 and OS-9. If you have questions concerning these computers or OS-9 call one of the officers. Area code C=312, S=708, F=815.

| POSITION       | NAME            | PHONE     | PRIMARY FUNCTION       |
|----------------|-----------------|-----------|------------------------|
| President      | Tony Pordaza    | 5428-3576 | The buck stops here... |
| Vice-President | Carl Boll       | C735-6087 | Meeting Planning, etc. |
| Vice-President | Gene Brooks     | S897-9023 | "                      |
| Secretary      | Howard Luckey   | S747-0117 | Records and Reporting  |
| Treasurer      | Geo Schneeweiss | F832-5571 | Dues and Purchasing    |
| Editor         | David Barnes    | S587-9820 | Newsletter coordinator |
| VP Telecom     | David Barnes    | S587-9820 | Club BBS SysOp         |
| Printer        | Dennis Devitt   | S629-2016 | Newsletter Exchange    |
| Advertising    | Bob Swoger      | S576-8068 | Newsletter Ads         |

### CoCo-1,3 CONTRIBUTIONS

If you would like to contribute an article to the newsletter, upload a file to the Glenaside CoCoRama BBS with an extension of 'NEWS'. If you have an AD for the newsletter UPLOAD a file with the extension of 'ADS'. If you have NEWS to POST about your group, please use the message base. These files are gathered by the BBS computer and downloaded to the Editor. If you need help contact the SYSOP by E-MAIL, mail, in person, or by phone:

**DAVE BARNES**  
P.O. Box 281  
LAKE VILLA, IL 60046

It is preferred that you call: VOICE 708/587-9820 or BBS 708/587-9837  
On DELPHI - DAVIDBARNES On CIS - 73357,1324

Articles for the CoCo-1,3 will also be accepted on diskette in ASCII form and UNFORMATTED only in the following formats:

RS-DOS 5 1/4"-35 SSDD/DSDD 5 1/4"-40 SSDD/DSDD  
OS-9 5 1/4"-35 SSDD/DSDD 5 1/4"-40 SSDD/DSDD 3.5"-SSDD/DSDD  
MS-DOS 5 1/4"-40 SSDD/DSDD 3.5"-SSDD/DSDD 5 1/4"-1.2 Meg

Submission deadlines for the CoCo-1,3 are two weeks prior to each monthly meeting. Articles submitted after the deadline will appear in the next issue.

### CoCo-1,3 NEWSLETTER EXCHANGE

The Glenaside Color Computer Club of Illinois is pleased to exchange newsletters with other Color Computer user groups at no charge. Send your newsletter to:

**DENNIS DEVITT**  
21 W 144 CANARY ROAD  
LOMBARD, IL 60148

If you desire to reprint any articles that appear here, please provide credit to the author and this newsletter.

We encourage your user group to copy this newsletter and distribute it at your regular meetings to your members free of any charge as we believe that this will encourage better meeting attendance. If you are a user group that feels as we do, please let us know in your newsletter so that we might do this for our members and keep our attendance up.

### GLENASIDE CLUB MEETINGS

The Glenaside Color Computer Club meets on the second Thursday of each month, from 7:30 - 9:30 PM, at the Glendale Heights Public Library. Further info can be obtained from Tony Podraza at home 708-428-3576.

### FUTURE MEETING DATES:

January 14  
February 11

A social get-together always occurs afterward at the Springfield Restaurant.

### CONTRIBUTORS TO THIS ISSUE

- Tony Podraza • Howard Luckey
- Robert Bruhl
- Alfredo Santos • David Barnes

### EDITOR:

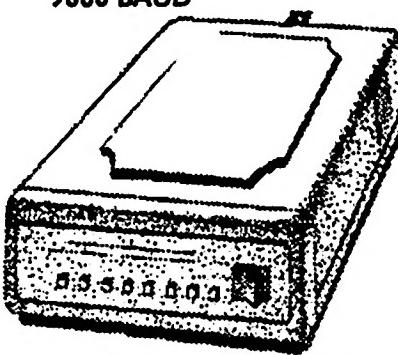
**David Barnes**

### DESIGN, LAYOUT AND GRAPHICS:

**BARSoft Publishing**

Copyright © 1993 Glenaside Color Computer Club of Illinois  
and  
BARSoft Publishing

**Glenaside CoCoRama BBS**  
**(708) 587-9837**  
**9600 BAUD**



**SandV BBS**  
**(708) 352-0948**  
**9600 BAUD**

**Glenside's Cup of**  
**CoCo**  
**2400 BAUD**  
**(708) 428-0436**

**Chi-Coco BBS**  
**(312) 735-3355**  
**2400 BAUD**

*These are YOUR club BBS's... Please support them !!!*

## From The President's Platen

Continued From Page 1

make the gathering AN EVENT! Future gatherings could end up Dayton, mixed up in a mass gathering of a multitude of orphaned computers. BUT, IN 1993, WE'RE GOING TO SHOW THE WORLD WHAT IT'S ALL ABOUT!!! Come join us for a real celebration! By the way, nobody sent in any guesses about the October newsletter contest. Maybe the timing was bad in reference to when the newsletters were sent out. Anyway, the contest is still open, and the award is waiting for the winner. Anyone interested?

## December Meeting Review

By Howard Luckey

There was a general discussion about computing and the CoCo. Someone mentioned that the CoCo has been a jumping off place for many people to get into some part of the computing business such as software or hardware vending. Carl mentioned that ColorWare was getting out of the CoCo business and someone wondered if the CoCo community could, somehow, get access to their products for continued use.

It was announced that there would not be a disk of the month at this meeting because Scott Montgomery was absent. He has the October issue in his possession. Someone suggested he be called to see if he is okay.

Tony mentioned that company called Arrow Electronic will sell single orders for chips with a minimum order of \$25.00. Many companies require a person to buy a large number of chips.

### THE DEMO

This is the demo of Simply Better (SB) carried over from last month. Simply Better is a very fine word processor that works under RS basic. First I ran the config program which allows you to set up screen size, text width, wrap on or off, etc., the printer codes for different fonts, and formatting parameters such as margins, justification, line spacing, in all thirty one different parameters. Once this is done it can be saved to a file for loading when you boot SB. Incidentally most if not all of the parameters can be changed from within the program.

Once SB is up and running you are in the command mode. This is where you can change screen size, toggle beep on or off, load and save files or tasks, and a lot of other stuff. When you are ready to type in text you hit the break key and now you are in the text mode. In this mode you have all of the usual features of any word processor such as cursor commands, find text, find and replace, deleting, block commands, etc. SB has a information line at the top of the screen which lets you know that you are using SB, the word "Normal-O" which lets you know what font you are using in this case the normal one, and to the left of the screen are the letters NTMVL. N stands for normal text but that letter will change when you hit one of the control keys such as Ctrl, Alt, or F1 on the

Co keyboard. Once you hit one of the keys N will change to a blinking C, or A or 1 to let you know that those keys are ready for another input to carry out some processing command. The next letter indicates either the overstrike or insert mode which can be

toggled. Then M stands for mask on or off, if the M is absent, and if it is on and you use the find command. Case will make no difference. The V stands for verify, that is asking you if you want certain commands carried out, and it can be toggled. Lastly the L stands for lower case that can be toggled to upper case with shift-0.

There is a lot to SB and if your computer is the CoCo 3 and you need a word processor I highly recommend it. Other features include but are not limited to: a view mode to see what your document will look like in print, an eyes mode for hearing impaired i.e. the boarder flashes to indicate error messages, line numbering ability, macros, called tasks, that can store a bunch of commands and key strokes into one or two of them and these tasks can be saved to disk and loaded when needed, a calculator, a sorting ability, etc.

## History Of The CoCo

By Alfredo Santos

*This is the fourth in the series of articles presented by Alfredo Santos. These files were originally downloaded from Delphi and are reprinted with the author's permission.*

### THE FOURTH YEAR (July 83 - June 84)

Does it seem like I'm being too hard on CCN? Well in July, there was a full-cover photo of the DRAGON/32 but, nothing on the inside about the computer.

RAINBOW magazine, now supporting the MC-10, celebrated its second anniversary with a 308 page issue containing a two year index, a record with some BASIC programs, a look at the "new" MC-10, and a review of April's RAINBOWFEST.

Marketing began for UN-DISK from DR. PREBLE, ELITE CALC from ELITE SOFTWARE, and PBJ's 80 COLUMN CARD.

If 64K wasn't enough for your CoCo, you could always try DENNIS KITSZ's 128K bubble memory upgrade which appeared in July's TCCM.

A new CoCo magazine, 68 COLOR MICRO JOURNAL, was announced in August, which brought to 5, the number of dedicated magazines for the CoCo.

Just about all magazines carried articles on the MC-10. My personal favorite is the one in CCN!

New product announcements in August include a new CoCo keyboard from HJL, the MULTI-PAK INTERFACE from Radio Shack, PIRATECTOR from Sugar Software, and Chromasette goes to disk.

SOFT SECTOR MARKETING stops marketing CoCo software.

Always on the leading edge, Star-Kits starts its software AMNESTY program. Who but Peter Stark would be bold enough to give software pirates a chance to cleanse their soul? Star-Kits also markets the first MC-10 software. HUMBUG.

If you missed the first RAINBOWFEST, take heart, there is a very strong possibility of three more.

If you needed a new computer to take back to school with you in September, you might try the newly released CoCo II but, don't bother subscribing to CCN because, unknown to its subscribers, the September issue, is its last.

CONTINUED ON PAGE 4



## History Of The CoCo

Continued From Page 4

CoCo/Dragon ROM Conversion Table (Color Basic ROM 1.1)

| Co<br>Addr | DRAG<br>Addr | Comment           |
|------------|--------------|-------------------|
| A5EE       | B820         |                   |
| A619       | B84B         |                   |
| A629       | B85B         |                   |
| A635       | B867         |                   |
| A65C       | B88E         |                   |
| A65F       | B891         |                   |
| A663       | B895         |                   |
| A701       | B933         |                   |
| A70B       | B93E         | BLOCK IN          |
| A77C       | BDE7         | Cass. READ out    |
| A7E9       | BDDC         |                   |
| A7D1       | B480         |                   |
| A7D3       | B482         |                   |
| A7D8       | BE68         |                   |
| A7F4       | B999         | BLOCK OUT         |
| A928       | BA77         | Clear Screen      |
| A951       | BAA0         |                   |
| A956       | BAAS         |                   |
| A974       | BAC3         |                   |
| A976       | BACS         | sound routine     |
| A9DE       | BD52         |                   |
| AD19       | 8417         | Clear mem (NEW+3) |
| 77         | 89B4         | get operand       |
| 9C         | 90ESPNIT     | text string       |

Another area of major incompatibility is the keyboard (HITEK 107044 H). Although the DRAGON has a full stroke keyboard, its matrix is not wired the same way as the CoCo keyboard. For example, a CoCo machine language program (which you've modified, of course) will produce unexpected keyboard input. Typing the following: "DRAGON COLOR COMPUTER" will put this on the screen: "4B17/. 3./B 3/-@ED5B". Indications supporting the keyboard matrix incompatibility is the fact that if the DRAGON keyboard is installed in the CoCo, or vice versa, the weird output continues. This condition does not effect any CoCo BASIC programs running on the DRAGON (unless you are PEEKing the keyboard rollover table to check keys pressed).

A couple more items on keyboard related matters: DRAGON BASIC's routine to poll for entry from the keyboard is somewhat less efficient than CoCo's. I'm not a speed typist but, in the two years I've been computing, I've gotten pretty proficient at typing the word "LIST". The word is typed so fast that before the "L" key is released, the "I" key is being pressed then "S" and "T". The DRAGON turns my lightning "LIST" into "LST". This occurs because DRAGON's keyboard polling routine will not recognize the "I" key stroke until the "L" key is released because they are apparently on the same row of the keyboard matrix. This also effects the method used to pause scrolling during a LIST with SHIFT @". The inability to accept a double keystroke happens only while DRAGON is in the 32K mode (on powerup). While in the 64K mode, not only is the "problem" eliminated but, if a key

is held down for more than a few 10ths of a second, it starts repeating.

By the way, You'll know at a glance whether you're in the 32K or 64K mode simply by the cursor color. While in the 32K mode, the cursor will be a blinking solid black graphics character while a blinking solid blue cursor indicates 64K mode.

DRAGON's 64K mode is entered by typing "EXEC" and pressing <ENTER>. Easy hey?? When the machine is turned on, part of its initialization process includes moving data into LOW RAM (\$0000-\$03FF) for the BASIC interpreters to use. For instance, the system uses location \$009D to hold the EXEC address of the last machine language which was loaded into the computer. This eliminates having to specify an EXECution address after you CLOADM a program. Power-up initialization puts the value BF49 at \$009D. DRAGON's 64K mode ROM entry point is \$BF49.

If, however, you wish to enter the 64K mode AFTER having loaded in a machine language program, \$009D will then contain then EXEC address of that program so typing EXEC & HBF49 will be required to access the 64K. Another nice thing about the DRAGON's use of it's 64K is that it frees user RAM from \$0600-\$BFFF's by MOVING the ROMS up to \$C000-\$FFFF. Radio Shack's doesn't move its ROMs so you end up with 2 blocks of RAM: \$0600-\$7FFF and \$C000-\$FFFF, with memory locations \$A000-\$BFFF (\$8000-BFFF for EXTENDED BASIC CoCos) off limits because CoCo's ROMS are there.

Beside its 64K of RAM and full stroke keyboard, the parallel printer port and monitor output should make this computer a very serious consideration to anyone in the market for an inexpensive yet powerful computer with high resolution graphics capabilities.

In addition to the above mentioned ports, the DRAGON/64 has connectors for 2 joysticks, a cassette recorder, 40 ROM cartridge/disk interface, TV hook up and external power transformer.

The DRAGON/64 gives you all the power and versatility of the very popular TRS-80 Color Computer plus features which make the DRAGON/64 a much more professional machine with far greater capabilities. If you've held off buying the TRS-80 Color Computer because of some above mentioned limitation then now is the time to stop DRAGON your feet and check out this very GREAT BRITON. (You liked the BEATLES didn't you?)

Nelson Software, in September, announced that their Super "Color" Writer had become the official word processor for the DRAGON.

The highlight of the second RAINBOWFEST (held in Ft. Worth on October 14-16) was a walking tour of Tandy's new CoCo Plant. The same month Radio Shack releases the WALT DISNEY and SESAME STREET educational software, MULTI-PAK interface, the MOUSE, the KRAFT joystick, and the OS-9 operating system.

DENNIS KITSZ says "I'm gonna teach you a lesson" when he releases his 6809E instructional kit.

In November, at COLOR EXPO'83, MARTY GOODMAN debut his state of the art graphics program GRAPHICOM. Thanks Marty!

Other releases came from ELITE WORD from Elite Software, SUPER SCREEN from Mark Data, PASCAL from DEFT SOFTWARE, the BASIC UNRAVELLED books from Spectral

# CoCo III Graphics to burn your GIME

## Revelation!

Revelation is an operating system enhancement which allows you do have all of the following under MS-DOS:

- 12 Movie Keys
- Disk Access of Drives
- 640 x 224 and 320 x 224 graphics
- 32 x 24 and 48 x 32 font
- One-Key creation of Font and alias processor modes.
- On-screen display of keyboard status, current operations and current speed setting.

now limited to 16 colors at 320x224.

OOD

## Slake Freeman and the Invasion of the Mutant Linoleum Miners

Mutants, predators, alienoids, Goldies, Gorgon Women and God populate this adventure game

### Consignment sales

Contact me about selling your privately used software and hardware OR your original software.

nearly two meg of compressed graphics. Full graphic representation of the invincible alienoids complete with shield and fire-power normally present only in dedicated tape drives combine to create a unique audience and evidently another the San August 1982 of 1982.

OOD

## BlackJack III

Biggest hand and the best playing-card graphics of any program for the CoCo 32 makes this an absolute must-have for any gamblers or gaming enthusiasts. The dealer actually talks to you during the game!

OOD

## Club Prices

| All prices reflect club discounts | Club    |
|-----------------------------------|---------|
| Revelation                        | \$12.95 |
| Slake Freeman 1982.2K             | \$14.95 |
| BlackJack III                     | \$14.95 |

1 day away, better purchases of software and software make one offer!

### To Order:

Send Check or Money Order  
to:  
Robert Freeman  
Box 642 Post Box  
Orlando, FL 32801

## History Of The CoCo

Continued From Page 5

Associates, and Computerware's first BASIC COMPILER.

Nelson Software changed its name in November to VIP SOFTWARE. (A rose by any other name?)

With Christmas only days away, TANO started including 8 FREE programs with its DRAGON/64. Things are not looking good for this CoCo clone.

Reviews for the DRAGON/32 and DRAGON/64 appear in a couple of publications along with the announcement of TIME BANDIT from the COMPUTER SHACK, MAGIGRAPH from The Micro Works, and POKEs, PEEKs & EXEC FILE from MICROCOM SOFTWARE.

In January, a BARCODE READER called OSCAR is advertised in several computer magazines for several machines, including the CoCo. This \$178 ill-fated project ended up being liquidated for \$54.00.

WAYNE TECHNOLOGY marketed its CP/M for the CoCo, and DYNAMIC ELECTRONICS marketed the first ever 128K upgrade.

February marked the debut of GRAPHICOM from

MARTY GOODMAN, and ELITE-FILE from Elite Software, plus a name change from the Computer Shack to MICHTRON.

RAINBOWFEST #3 is held in Long Beach, CA. February 17-19.

Radio station KGON, its reported, has its own bulletin board running on a CoCo.

TANO drops its DRAGON/64 ads in RAINBOW and rumors start circulating that the computer is about to breath its last flame.

The first east coast RAINBOWFEST is held March 30 - April 1 and features the first CoCo HARD DISK from SOFTWARE SUPPORT. In an attempt to clear its stock, TANO reduces the price of the DRAGON/64 to \$149.00.

Bob Rosen, in May, moved Spectrum Projects to San Jose, CA., word's out about the future release of the C-COMPILER from Radio Shack, and VIP CALC from VIP Software. New product releases came from Prickly-Pear Software with their DISK TRIVIA software, and the Tom Mix milestone, WORLDS OF FLIGHT.

By the time the June 22-24 RAINBOWFEST touches down in Chicago, DRAGON/64 ads have vanished from all CoCo magazines as DRAGON DATA Ltd. (British parent company) is under receivership.

Announcing

## Icon Basic09

The next programming language for OS-9!

Icon Basic09 is a graphical user interface (GUI) to Basic09, which will make programming easier than ever! Icon Basic09 takes an innovative approach by using graphic representations, or icons, to represent statements and keywords for writing Basic09 programs and procedures. Instead of constantly typing while writing a program, the user can simply point & click to choose the desired statement!

Icon Basic09 can also be very useful in studying procedures and programs written by others to learn how they operate. The package contains a full set of icons...or, you may edit or create icons using the included icon editor. Icon Basic09 requires a CoCo-3 with at least 256K, mouse or joystick, and OS-9 Rev 2.

\$20

|   |      |
|---|------|
| Dual hi-res Joystick adapter (PC/Commodore) | \$40 |
| Hi & Lo-res Joystick adapter                | \$27 |
| HAWKsoft keyboard extension cable           | \$25 |
| Demandsplitter ("Rick"-like interface)      | \$18 |
| MyDOS 3.0 enhanced DOS extension            | \$15 |



Hawksoft  
PO Box 7112  
Elgin, IL 60121-7112  
(708) 742-3084 even & odds

US and CAN S&H always included. Terms: MO, check, or COD.

## Disk Utilities

By Robert Bruhl

Here are a couple of small programs that might be of interest others. The first program, called DISKNAME, allows you to store up to a 20 character name in sector 1 of the directory track. The second program, called PRINTDIR, will print out a listing of the directory several different ways. It first asks you what drive, then if the ID is stored 'in' or written 'on' the disk. It will then print the listing in 1, 2, 3, or 4 columns based on the number of files saved in the disk. It used 10 CPI (characters per inch) for 1 column, 12 CPI for 2 columns, or 16 CPI for 3 or 4 columns. The print codes are set for a DMP130 type printer. The listing will print on half a page (33 lines) at 2400 baud.

```
0 'DISKNAME.BAS IS PROGRAM NAME
1 '
2 'PUT DISKETTE NAME INTO TRACK 17
SECTOR 1
3 'COPYRIGHT (C) 07/21/87
4 ' By: Robert E. Bruhl
5 '     841 N. Mapleton Ave.
6 '     Oak Park, IL, 60302
7 '
8 ' Last Modified: 7/30/91
9 '

10 CLEAR 1000:VERIFY ON
? CLS:FOR X = 1125 TO 1146:GOSUB
220:NEXT
30 FOR X = 1223 TO 1240:GOSUB
220:NEXT
40 FOR X = 1324 TO 1331:GOSUB
220:NEXT
50 PRINT@387,''PRESS ANY KEY TO
CONTINUE'':GOSUB 250
60 CLS:PRINT@0,''DRIVE 0-3?''
70 AN$ = INKEY$:IF AN$ < ''0'' OR
AN$ > ''3'' THEN 70 ELSE DR =
VAL(AN$)
80 CLS:DSKI$DR,17,1,A$,B$:N$ =
LEFT$(A$,20)
90 PRINT@193,N$:PRINT@289,''THIS IS
CURRENT DISKETTE NAME'':GOSUB 240
100 ON INSTR(''YyNn'',I$)GOTO
180,180,110,110
110 A$ = STRING$(128,CHR$(255))
120 CLS:PRINT@102,''ENTER DISKETTE
NAME''
130 PRINT@ 213,'' ]'': PRINT@
92,''[': LINEINPUTN$
140 IF LEN(N$)>20 THEN GOSUB
260:GOTO 120
```

## Middle America CoCo Fest '93

Presented by "Mid Iowa & Country CoCo"

Saturday Breakfast 8:30 AM W/Speakers (optional) \$7.00 RSVP

Saturday March 27, 10:00 AM to 6:00 PM

Sunday March 28, 10:00 AM to 3:00 PM

The Place: Ramada Inn. (formerly Travel Lodge)

Easy highway access at I-35 & 80 interchange (University Exit)  
With a "limited number" of rooms reserved at Fest rates. \$35.00  
per room (up to four occupants) For Reservations: 1-800-255-  
2222 Airport shuttle provided!

Several Color Computer Fests were successfully done in 92.  
Port Orchard, WA had a very successful Fest in June. Atlanta had  
an attendance of 200, plus vendors. This prompted my attention  
to the fact that a Fest could be held here in Des Moines, IA.

Well... not just another Fest.

Our national reach out and central location should assure full  
attendance with an attractive and fun filled Fest!

Card tables in a gymnasium just isn't the sort of fest people  
travel to and spend money at, nor is it our style. What we have put  
together is a high quality Fest, with an eye toward reasonable rates.

A quality hotel: The Ramada Inn with attractively displayed  
booths and plenty of walking and talking room. Speakers, start  
with the well known James Jones of Microware, OS-9 User Group  
President, Boisy Pitre, and Terry Simons, RSDOS. Others will  
follow to fill an attractive seminar schedule. This promises to be  
a well rounded Fest. With both heavy emphasis for the OS-9  
enthusiast; with a good representation of RSDOS.

Seven months after the previous Fest in October 92, CoCo  
enthusiasts from all around will be looking forward to it!

This will total up to a fest you don't want to miss!

| Tickets: | Til Feb 1 | At the door |
|----------|-----------|-------------|
| One day  | \$10.00   | \$12.00     |
| Two day  | \$12.00   | \$15.00     |

Mail to:

Middle America Fest

Terry Simons/ Treas.

1328 48th

Des Moines, IA 50311

```
150 LE = LEN(N$):IF LE < 20 THEN N$ =
= N$ + '' ''':GOTO 150
160 CLS:PRINT@320,''-''N$'''-''':GOSUB
230:ON INSTR(''YyNn'',I$)GOTO
170,170,120,120
170 A$ = N$ + STRING$
(108,CHR$(255)): DSKO$DR,17,1,A$,B$
180 CLS:PRINT@98,''ANOTHER DISKETTE?
(Y/N)'':GOSUB 250
190 ON INSTR(''YyNn'',I$)GOTO 200,
200,270,270
```

```

0 PRINTDIR.BAS IS PROGRAM NAME
1
2 COCO MULTI-COLUMN DIRECTORY LISTING
3 COPIRIGHT (C) 1986
4 BY: Robert E. Bruhl
5 841 N. Mapleton Ave.
6 Oak Park, IL. 60302
7
8 Last Modified 1/19/92
9
10 CLEAR 2000:CS = ..,:DIM 1$(78)
11 20 IF PEEK(65314) AND 1 THEN 20
12 30 POKE 150,18 2400 BAUD
13 40 PRINT#2,CHR$127); CHR$52); CHR$(33); 33
14 50 PRINT#2,CHR$(27); CHR$(18);
15 60 N = 0
16 70 CLS:PRINT0,"DRIVE 0-3?",'
17 80 ANS = INKEY$:IF ANS < "0", OR ANS >
18 90 FG = FREE(DR)
19 100 PRINT64,"LOCATION OF DISK ID",
20 110 PRINT100,,(0)n DISKETTE?",'
21 120 PRINT132,,(1)n DISKETTE?",'
22 130 ANS = INKEY$:IF ANS <> "0", AND ANS >
23 140 IF ANS = "0", THEN 170
24 150 .SKS1DR,17,1,A$,B$:DI$ = LEFT$(A$,20)
25 160 PRINT,,ID:,,DIS:GOTO 180
26 170 LINENPUT ,,ID:,,DI$
27 180 DSKS1DR,17,2,A$,B$ =
28 190 FOR S = 3 TO 11
29 200 DSK1SDR,17,S,X$(1),X$(2)
30 210 FOR GR = 1 TO 2
31 220 FOR J = 1 TO 32
32 230 IF MID$(X$(GR),J,1) = CHR$(255) THEN
33 240 IF MID$(X$(GR),J,1) = CHR$(0) THEN
34 250 NS = MID$(X$(GR),J,8)
35 260 ES = MID$(X$(GR),J + 8,3)
36 270 Y$ = MID$(X$(GR),J + 11,1)
37 280 Y = ASC(Y$):TS = STR$(Y)
38 290 Y$ = MID$(X$(GR),J + 12,1):Y = ASC(Y$)
39 300 IF Y = 255 THEN FS = "A", ELSE IF Y =
40 310 G = 0
41 320 Z$ = MID$(X$(GR),J + 13,2):Z = ASC(Z$)
42 ,GRANULE COUNTER
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
709
710
711
712
713
714
715
716
717
718
719
719
720
721
722
723
724
725
726
727
728
729
729
730
731
732
733
734
735
736
737
738
739
739
740
741
742
743
744
745
746
747
748
749
749
750
751
752
753
754
755
756
757
758
759
759
760
761
762
763
764
765
766
767
768
769
769
770
771
772
773
774
775
776
777
778
779
779
780
781
782
783
784
785
786
787
788
789
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
809
810
811
812
813
814
815
816
817
818
819
819
820
821
822
823
824
825
826
827
828
829
829
830
831
832
833
834
835
836
837
838
839
839
840
841
842
843
844
845
846
847
848
849
849
850
851
852
853
854
855
856
857
858
859
859
860
861
862
863
864
865
866
867
868
869
869
870
871
872
873
874
875
876
877
878
879
879
880
881
882
883
884
885
886
887
888
889
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
909
910
911
912
913
914
915
916
917
918
919
919
920
921
922
923
924
925
926
927
928
929
929
930
931
932
933
934
935
936
937
938
939
939
940
941
942
943
944
945
946
947
948
949
949
950
951
952
953
954
955
956
957
958
959
959
960
961
962
963
964
965
966
967
968
969
969
970
971
972
973
974
975
976
977
978
979
979
980
981
982
983
984
985
986
987
988
989
989
990
991
992
993
994
995
996
997
998
999

```

FARNA Systems

**OTHER RNA SYSTEMS**

The Coco Family Recorder - Grayscale System, Cc3, \$0  
Involves by typing customer into their selecting part  
number from list Complete with Basic-09 source.  
Multi-user, Level I or II, Requires Basic-09.  
The Coco Family Recorder - Grayscale, Cc3, \$0  
03-8 Quick Reference Guide - desktop reference. \$7.95  
Ptech 06-8 - 2 disks of most used patches available.  
Auto patches w/12K, maximum of 2 40T DS drives.  
Juke Black Book - address/photon database. \$7.95  
Video Tape Organizer - video library database. \$7.95  
LBB & VTO - both only \$12.95!!  
Keep-Trak - general accounting, CC 1,2,3. \$24.95  
Accountrite Receivable for K-T. \$10 (\$20 advance)  
Omega File - menu driven database, C1, 1,2,3. \$24.95  
Programming the 6808 - Assembly language book  
recommended by Motorola & Marty Goodman. \$22.95  
Basic 912-328-7859 Add \$1.50 S&H (CA add 5% tax)

[View Details](#)

**RETURNO OF THE RASCAN DIGITIZER!!** The BEST COCO Video Digitalizer is now again available! 320x200 to 640x200, color scan with 512k and Ultrares plug into joystick ports. See Ratiobow review, Dec. 1990, pg. 83. **WTR0 SPECIAL:** Send \$40 down and get a Rascan for only \$140! Shipped from Australia; allow 8-10 weeks. Full payment only \$135. Offer expires 30 Nov. 1990. **REGULAR PRICE:** \$175 Multi-user, Level I or II. Requires Basic-08. \$24.95 number from customer who then selling part involved by typing customer info into basic-08 source.

```
200 PRINT#162,,,"INSERT NEW  
DISKETTE",:PRINT#226,,,"THEN PRESS  
<ENTER>,,:GOSUB 250  
210 GOTO 80  
220 READ A:POKE X,A:RETURN  
230 PRINT#290,,,"YOU ENTERED",  
240 PRINT#386,,,"IS THIS CORRECT? (Y/N)
```

## Forsale / Wanted

### FOR SALE

2K COCO3-\$75 Magnavox Professional RGB Monitor-\$175 10 Meg Hard drive, with Disto Controller (no case) \$125 Multi-Pak with PAL Chip installed--\$50  
40 track Disk drives 0 & I, with J&M controller, switchable for RS Dos & Ados3=\$100 Tandy DMP 130 Printer, with serial -Parallel Cable and Baud Control Box (300-9600)  
also 3 new ribbons--\$130 2400 Baud Compudyne Modem

Call Len Zielinski at 708-967-8791 Bet. 9AM & 9PM

### FOR SALE: ON 921012

TRS-80 MODEL 16.B W/15 MEG DISK SYSTEM FOR 8" DISK.  
(2) TRS-80 DWP 510 PRINTER; (1) DAISY WHEEL PRINTR MODEL II; (3) TRS-80 8 MEG DSK SYSTEM; (2) TRS-80 12 MEG DISK SYSTEM; (1) TRS-80 15 MEG DISK SYSTEM; (4) DISK SYSTEMS 3 SLOTS, 2 DRV; (4) TRS-80 MDL II MICROCOMPUTRS; EVERYTHING WORKS -PRICE NEGOTIABLE -

CALL PHIL OR JIM CLARK 8 AM -5 PM WEEK DAYS OR 9 AM TO 12 NOON SATURDAYS 708-366-1913

### FOR SALE: ON 920909

I have acquired more ZX goodies to pass on to you all since my last ad:

#### \* Timex and Sinclair Hardware \*

(2) TS-2068; (2) Joysticks; (1) Spectrum Joystick Adapter; (2) Commodore 1520 Color Plotter; (1) Color Plotter Repl Pen Set; (1) Wico Trackball; (1) TS-2040 Printer; (1) TS-2068/1520 Plotter Intfce; (5) TS-2050 Modems (untested, 3 with cables, all uncased); (1) OS-64 Cartridge; (1) TS-2068 Winky Board; (1) Z-SIO (TS-2068 Serial Intfc); (1) JLO TS-2068 Expansion Board; (1) Z-Link (TS-2068 to Spectrum bus converter); (1) JLO Printer Interface Card; (1) QL; (2) Crazybugs Cartridges; (2) Budgeter Cartridges; (1) States & Capitals Cartridge; (1) Pinball Cartridge; (1) Flight Simulator Cartridge; (1) Androids Cartridge; (1) ZX-81; (3) TS-1016 (16K Rampack); (2) TS-1000 Winky Board; (1) Larken NVM for TS-1000

#### \* TS-2068 Software \*

Fighter Pilot; MScript; Flight Simulator; Casboard; 2068 Ramdisk; Textwriter 2000 Plus; Pro/File 2068; Hot-Z 2068; Mterm-T; Loader V

#### \* Spectrum Software \*

Super Bowl Machine; Code Tutor; Higheay Encounter; Flying Formula Dlan  
Specterm-64 ZXpert 007 Spy Softaid (10 Programs)  
Cassette 50 (50 Programs)

#### \* TS-1000/ZX-81 Software \*

### Word Sinc ZX-Term\*80

#### \* QL Software & Manuals \*

QL Technical Guide; MAC Paint (with files); CAD Runtime Editor; Pascal Psion Package (WP,SS,DB,Graph); Qcode QLTerm; QLink

#### BEST OFFER

Gary Lessenberry  
12 Alleghany Road  
Havelock, NC 28532  
919-444-3895

### FOR SALE: ON 920719

1770 DISK DRIVE CONTROLLER I.C.s for \$9.00 each postpaid to U.S. or Canadian addresses.

Paul Holmgren 52310 Wilton Wood Court Indianapolis IN 46254 317-291-6002

### FOR SALE: ON 920102

128K QL W/ MINERVA 1.66 ROM and ENHANCED KEYBOARD \$95;  
MIRACLE 512K EXPANDERAM (QL)  
SPEEDSCREEN ROM (w/ RAM code on 1 mdv) \$45; NUCLEON (2 mdv) \$15;  
INTEGRATED ACCOUNTS (on 3 mdv) \* ALL ABOVE ITEMS: \$250 \*  
\* A'LL PRICES NEGOTIABLE \*  
CALL: AlFeng H(708) 971-0495

### FOR SALE: ON 920522

Epson LX-86...needs new head; Royce 23-chnl CB mobile radio; Royce 40-chnl CB mobile radio; If interested, either leave E-mail, or call Tom Kowalski at (708) 289-7583 after 3:30 PM, or leave message on answering machine.

### WANTED: ON 920509

TRACTOR AND/OR ROLL PAPER UNIT(S) FOR MANNES-MANN  
TALLY MT160 PRINTER. ALSO, ANY INFORMATION ON THE RC  
ALLEN (BY LITTON WESTREX) PRINTER MODEL NO.88802-112  
D. G. Smith, R.415 Stone St., Johnstown, PA 15906

### FOR SALE: ON 920309

GETTING RID OF EXCESS EQUIPMENT, HARDWARE, SOFTWARE,  
BOOKS, ETC. FOR BOTH TS1000 AND TS2068. SEND FOR LIST. WILLIAM VOLK, 6015 CARTER AVE, BALTIMORE, MD  
21214 H301-254-8258

## Forsale / Wanted

Continued From Page 11

**FOR SALE: ON 920509**  
LOCAL COMPUTER GROUP GETTING RID OF EXCESS EQUIPMENT,  
HARDWARE, SOFTWARE, BOOKS, ETC. T/S USER'S GROUP,  
P.O.BOX 614, Johnstown, PA 15907

**FOR SALE: ON 911010**  
CoCo 1 W/64K AND PRO KYBRD \$20; J&M Controller \$65;  
Dual TEAC Disk Drives \$80; Joysticks \$10  
The whole package with software and manuals: \$125  
CALL TONY SOKOL H708-428-4058

**FOR SALE: ON 911025**  
I have a Sinclair ZX81 with 64K Memotech RAM, enhanced keyboard and 300 baud Byte-Back modem. I also have a TS2068 with modem, printer, and Spectrum cartridge, along with a dozen old programs from Quicksilva and the like, for both machines. Both are in working order and excellent condition. Make an offer on the whole kit and kaboodle. Peter Paglia, 8802 Partridge Run, Chapel Hill NC 27516

**FOR SALE: ON 911015**  
QL Complete System \$80; Gold Card for the QL \$500  
Call Frank Davis H317-473-8031

**FOR SALE: ON 911015**  
For the AMIGA 500: Platinum Scribble \$40; Deluxe Paint \$25;  
Walt Armstrong H407-433-8822

**FOR SALE: ON 910912**  
256K 80 nS SIMMS IBM TYPE, 1 MEGABYTE TOTAL  
\$15/ea or \$50 for all 4  
Call MIKE WARNS W708-982-2107 H708-627-9561

**FOR SALE: ON 910426**  
COLOR COMPUTER 3 - DISK DRIVE CM-8 COLOR MONITOR  
W/PLATFORM; SMITHCORONA; TP-1 PRINTER; JOYSTICK AND 1  
DOZ BLANK DISKS; SOFTWARE INCLUDES DESKMATE & HOME PUBLISHER \$400 OR BEST 312-337-3624

**WANTED: ON 920901**  
LarKen LKDOS system. Contact: Bob Swoger,  
W708-576-8068 or H708-837-7957

To : All From : Barry Ruchalski  
Subject : for sale  
Date : 92/10/06 19:44:30  
coco 3 128k; coco 3 512k; disk dr. 0; disk dr. 1 & 3 (ds)  
4 disk controllers; 2 eprom burners; MPI (PAL); SOFT CASE  
FOR COCO; MODEM I; LIGHT CONTROLER; LINE PRINTER  
120; DIGISECTOR DS-60/69B; SPEECH SOUND CARTRIDGE;

COLORMAX; ALL DISK PROGRAMS; ALL TAPE PROGRAMS; 1 DELUXE JOYSTICK;  
4 JOYSTICKS; MOUSE; GRAPHIC TABLET; VIDEO INTERFACE; KINGS QUEST II; MODEL III (RS) 48K;  
2 DISK DRS. AND ALL SOFTWARE TO HERE!!! \$400.00  
TAKE ALL

NEXT : YAESU FT 101 EX TRANS/CEVER \$250.00;  
TEN-TECTX-100 TRANS. & TEN-TEC RX-10 RECEV. \$50.00  
(QRP)  
HW-8 QRP \$50.00; 5 BAND VERTICAL \$50.00  
CALL BARRY AT 708-742-7774  
ALSO: COCO II 64K; DISK DR. 0 CONTROLER;  
CASS.&CABLES;  
2 JOYSTICKS; MPI; ALL \$75.00  
CALL BARRY AT 708-742-7775

## Disk Utilities

Continued From Page 8

```
330 Y$ = MID$(A$, Z, 1):Y = ASC(Y$) + 1:G = G + 1
340 IF Y < 192 THEN Z = Y:GOTO 330
350 N = N + 1
360 I$ (N) = N$ + C$ + E$ + C$ + T$ + C$ + F$ + C$ + STR$(G)
'STORE FILENAME INFO
370 NEXT J, GR, S
380 IF N < 17 THEN 550
390 PRINT#-2, DIS$: PRINT#-2, TAB(27), FG; '' FREE
GRANULES''
400 IF N < 37 THEN 510
410 PRINT#-2, CHR$(27); CHR$(20)
'16 CHARACTERS PER INCH
420 IF N < 55 THEN 480
430 N = INT((N + 3)/4):FOR I = 1 TO N
'4 FILENAMES PER LINE
440 PRINT#-2, LEFT$(I$(I), 12);:PRINT#-
2, TAB(22); LEFT$(I$(I + N), 12);
450 PRINT#-2, TAB(43); LEFT$(I$(I + N + N), 12);
460 PRINT#-2, TAB(64); LEFT$(I$(I + N + N +
N), 12)
470 I$(I + N + N + N) = '':NEXT:GOTO 580
480 N = INT((N + 2)/3):FOR I = 1 TO N
'3 FILENAMES PER LINE
490 PRINT#-2, I$(I);:PRINT#-2, TAB(27); I$(I +
N);:PRINT#-2, TAB(54); I$(I + N + N)
500 I$(I + N + N) = '':NEXT:GOTO 580
510 PRINT#-2, CHR$(27); CHR$(29)
'12 CHARACTERS PER INCH
520 N = INT((N + 1)/2):FOR I = 1 TO N
'2 FILENAMES PER LINE
530 PRINT#-2, I$(I);:PRINT#-2, TAB(31); I$(I + N)
540 I$(I + N) = '':NEXT:GOTO 580
550 PRINT#-2, DIS$: PRINT#-2
560 FOR I = 1 TO N:PRINT#-2, I$(I):NEXT
570 PRINT#-2:PRINT#-2, TAB(1); FG; '' FREE GRAN-
ULES''
580 LINEINPUT ''ANOTHER DISK?'':ANS:IF ANS =
''Y'' THEN PRINT#-2, CHR$(12):GOTO 50
590 LINEINPUT ''SKIP TO PERFORATION?'':ANS:IF
ANS <> ''Y'' THEN 610
600 PRINT#-2, CHR$(12):GOTO 590
610 PRINT#-2, CHR$(27); CHR$(52); CHR$(66):END
'66 LINES PER FORM
```

January 1993

**BARSoft Publishing**

February 1993

**BARSoft Publishing**

| SUNDAY  | MONDAY  | TUESDAY | WEDNESDAY  | THURSDAY   | FRIDAY   | SATURDAY |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|---|---|---------|--|--|--|----------|---|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|---|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|
|   | 1   | 2       | 3  | 4  | 5  | 6        |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 7   | 8   | 9       | 10   | 11<br>Glenside Color<br>Computer Club<br>Meeting | 12<br><br>Lincoln's<br>Birthday | 13       |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 14<br><br>Val-<br>enti-<br>ne's<br>Day | 15<br>President's Day   | 16      | 17   | 18<br>OS-9 Users Group<br>Meeting                | 19   | 20       |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 21  | 22<br><br>Washin-<br>gton's<br>Birthday  | 23      | 24<br>Cook County<br>Color Computer<br>Club Meeting<br>Aah Wednesday | 25   | 26   | 27       |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 28  | <table border="1" style="margin-left: auto; margin-right: auto;"> <caption>January</caption> <tr> <th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr> <td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> <tr> <td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td></tr> <tr> <td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td></tr> <tr> <td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr> <tr> <td>31</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> |         |  | S  | M  | T        | W | T | F | S | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  |  |  |  |  |  | <table border="1" style="margin-left: auto; margin-right: auto;"> <caption>March</caption> <tr> <th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td></td></tr> <tr> <td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr> <td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr> <td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td></tr> <tr> <td>28</td><td>29</td><td>30</td><td>31</td><td></td><td></td><td></td></tr> </table> |  |  | S | M | T | W | T | F | S | 1 | 2 | 3 | 4 | 5 | 6 |  | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  |  |  |
| S   | M   | T       | W  | T  | F  | S        |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 3   | 4   | 5       | 6  | 7  | 8  | 9        |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 10  | 11  | 12      | 13   | 14   | 15   | 16       |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 17  | 18  | 19      | 20   | 21   | 22   | 23       |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 24  | 25  | 26      | 27   | 28   | 29   | 30       |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 31  |   |         |  |  |  |          |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| S   | M   | T       | W  | T  | F  | S        |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 1   | 2   | 3       | 4  | 5  | 6  |          |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 7   | 8   | 9       | 10   | 11   | 12   | 13       |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 14  | 15  | 16      | 17   | 18   | 19   | 20       |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 21  | 22  | 23      | 24   | 25   | 26   | 27       |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 28  | 29  | 30      | 31   |  |  |          |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |

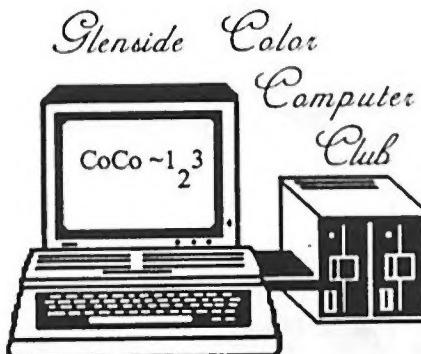
**Location:**

Glenside Public Library  
25 W. Fullerton Avenue  
Glendale Heights, IL. 60172

**Directions:**

Fullerton avenue is about 1 mile North of North Avenue (Route 64). The library is located West of Bloomingdale Road in Glendale Heights. Bloomingdale Road is approximately 2 miles West of Route 53 (or I-355).

*Glenside Color Computer Club*  
**Next Meeting Date...**  
**January 14**



119 ADOBE CIRCLE  
CARPENTERSVILLE, IL. 60110

